(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 28 April 2005 (28.04.2005)

PCT

(10) International Publication Number WO 2005/037822 A1

(51) International Patent Classification7:

C07D 403/06

(21) International Application Number:

PCT/KR2004/002646

(22) International Filing Date: 15 October 2004 (15.10.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

10-2003-0072096 16 October 2003 (16.10.2003) KR

(71) Applicant (for all designated States except US): YUHAN CORPORATION [KR/KR]; #49-6, Taebang-dong, Tongjak-ku, Seoul 156-020 (KR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): LEE, Tai Au [KR/KR]; ShinHyundai Apt. 1-606, Hoegi-dong, Dongdaemun-gu, Seoul 130-050 (KR). PARK, Sang Sun [KR/KR]; 301, 507-6, Cheoncheon-dong, Jangan-ku, Suwon-si, Gyeonggi-do 440-330 (KR). LEE, Doo Byung [KR/KR]; Mongnyeonuseong Apt. 507-305, Beomgye-dong Dongan-gu, Anyang-si, Gyeonggi-do 431-724 (KR). KIM, Sang Jung [KR/KR]; Deogil Apt. 1-105, Bokdae 2-dong, Cheongju-si, Chungcheongbuk-do 361-843 (KR).

(74) Agents: JANG, Seongku et al.; 19th Fl., KEC Building, #275-7, Yangjae-dong, Seocho-ku, Seoul 137-130 (KR).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PROCESS FOR PREPARING 1,2,3,9-TETRAHYDRO-9-METHYL-3-[(2-METHYL-1H-IMIDAZOLE-1-YL)METHYL]-4H-CARBAZOL-4-ONE OR ITS SALT

(57) Abstract: 1,2,3,9-tetrahydro-9-methyl-3-[(2-methyl-1H-imidazol-1-yl)methyl]- 4H-carbazol-4-one or its salt is prepared in high yield by reacting a compound of formula 2 with a compound of formula 3 and a compound of formula 4 in the presence of an acid, an alkylsilylhalide compound or an acylhalide compound, in an solvent, and thus, such an inventive process can be favorably applied to a large-scale mass production thereof.



